

Please add new claim 24 as follows:

24. (New) An extended coverage sidewall automatic fire sprinkler comprising:

a generally tubular body with a central passageway being disposed along a central axis and forming an outlet at an end of the generally tubular body, the central passageway having a K factor greater than 9;

a closure located at the end of the generally tubular body;

a trigger positioned to releasably retain the closure to occlude the outlet;

two frame arms coupled to the generally tubular body proximate the outlet, the two frame arms being located on a plane which intersects the central axis;

a deflector being coupled with the tubular body by the two frame arms along the central axis and spaced axially away from the outlet to transform water discharged horizontally from the outlet upon release of the closure by the trigger into a spray pattern of water droplets dispersed over a generally horizontal, generally rectangularly-shaped extended coverage area of at least two hundred and fifty-six square feet on one side of the sprinkler in an amount and with a distribution effective to control an ordinary hazard fire in the coverage area; and

wherein the deflector includes a face portion oriented at least generally perpendicular with respect to the central axis, a canopy portion oriented generally parallel to the central axis, the canopy portion having a generally flat planar surface substantially parallel to the plane on which the frame arms are located, and two support arms coupling the canopy and the face, to define a single flow opening through the deflector.